CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

Job No.: CQCE/BBMP/SRS/W.No.152/2020-21 Date: 29.07.2020

TEST REPORT

CLIENT	:	**Executive Engineer,** Project Division RR Nagar Zone, BBMP, Bangalore.
AGENCY	:	**Sri. Purushotham Raju N (Nadimpalli Purushotham Raju),** Contractor, Bangalore
NAME OF THE WORK	:	Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16, BBMP, Bangalore.
SAMPLE ID	:	Cement (OPC 53 Grade Zuari Cement)
DATE OF MANUFACTURE	:	June - 2020
DATE OF TESTING	:	27.07.2020 to 29.07.2020
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	355 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.5 %	-

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Bruhat Bengaluru Mahanagara Palike

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Authorised Signatory

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Job No.: CQCE/BBMP/SRS/W.No.152/2020-21

Date : 29.07.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** Project Division RR Nagar Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N (Nadimpalli Purushotham Raju),** Contractor, Bangalore
Name of Work : Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16, BBMP, Bangalore.
Date of Testing : 29.07.2020
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	82	8.20	8.20	91.8	90-100
2.36	119	11.90	20.10	79.9	75-100
1.18	175	17.50	37.60	62.4	55-90
600 Micron	203	20.30	57.90	42.1	35-59
300 Micron	182	18.20	76.10	23.9	8-30
150 Micron	153	15.30	91.40	8.6	0-10

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Job No.: CQCE/BBMP/SRS/W.No.152/2020-21 Date: 01.08.2020

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Client : **Executive Engineer,** Project Division RR Nagar Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N (Nadimpalli Purushotham Raju),** Contractor, Bangalore

Name of Work : Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16, BBMP, Bangalore.

Reference to BIS co IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification
: IS 3495 (Part 1 to 3) : 1992(RA 2011)
Method of Tests Burnt Clay Building Bricks
Part 1:Determination of Compressive Strength, (Cl 4.2.3)
Part 2:Determination of Water Absorption,(Cl 4.1.3)
Part 3: Determination of Efflorescence, (Cl 4)

Date of test: : 27.07.2020 to 01.08.2020

COMPRESSIVE STRENGTH

Sl.No.	Compressive strength of individual bricks (N/mm2)	Acceptability as per IS 1077:1992, Clause 7.1
1	5.3	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	5.6	
3	5.1	
4	5.8	
5	5.2	
Average of 5 bricks	5.4	

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WATER ABSORPTION:

Sl.No.	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	10.3	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	11.2	
3	10.9	
4	11.1	
5	10.5	
Average of 5 bricks	**10.8**	

EFFLORESCENCE:

Sl.No.	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	Moderate	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higher classes.
2	Moderate	
3	Moderate	
4	Moderate	
5	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4605	4520 to 4680 mm
2	Width	2195	2160 to 2240 mm
3	Height	1380	1360 to 1440 mm

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Job No.: CQCE/BBMP/SRS/W.No.152/2020-21 Date:10.08.2020

TEST REPORT ON CPVC PIPE

Client : **Executive Engineer,** Project Division RR Nagar Zone**,** BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N (Nadimpalli Purushotham Raju),**

Name of Work : Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16, BBMP, Bangalore.

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 32mm dia

Date of Testing 10.08.2020

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	34.9	34.9 mm
2	Mean Outside Diameter (mm)	34.9	Min 34.8 mm Max 35 mm
3	Outside Diameter at Any Point (mm)	34.8	Min 34.7 mm Max 35.1 mm
4	Density	1512 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CQCE/BBMP/SRS/W.No.152/2020-21 Date:10.08.2020

TEST REPORT ON CPVC PIPE

Client : **Executive Engineer,** Project Division RR Nagar Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N (Nadimpalli Purushotham Raju),**

Name of Work : Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16, BBMP, Bangalore.

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 20mm dia

Date of Testing 10.08.2020

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	22.1	22.2 mm
2	Mean Outside Diameter (mm)	22.2	Min 22.1 mm Max 22.3 mm
3	Outside Diameter at Any Point (mm)	22.1	Min 22 mm Max 22.4 mm
4	Density	1505Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CQCE/BBMP/SRS/W.No.152/2020-21 10.08.2020

TEST REPORT ON CPVC PIPE

Client : **Executive Engineer,** Project Division RR Nagar Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N (Nadimpalli Purushotham Raju),** Contractor, Bangalore

Name of Work : Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16, BBMP, Bangalore.

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 25mm dia

Date of Testing 10.08.2020

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	28.5	28.6 mm
2	Mean Outside Diameter (mm)	28.5	Min 28.5 mm Max 28.7 mm
3	Outside Diameter at Any Point (mm)	28.6	Min 28.4 mm Max 28.8 mm
4	Density	1532 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CQCE/BBMP/SRS/W.No.152/2020-21

Date 17.08.2020

TEST REPORT ON CERAMIC TILES

*Client : **Executive Engineer,** Project Division RR Nagar Zone, BBMP, Bangalore.

*Contractor : **Sri. Purushotham Raju N (Nadimpalli Purushotham Raju),** Contractor, Bangalore

*Name of the work : Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16, BBMP, Bangalore.

Technical Reference : IS: 13630 - 2006 - Method of Testing Vitrified Tiles
IS 15622 - 2006 - Specification of Vitrified Tiles

No. of Samples Tested : 05 (Five)

Date of Testing 10.08.2020 to 17.08.2020

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300*300	45.6	47.86	Average 47, individual minimum 44 N/mm^2
2	300*300	48.2		
3	300*300	49.5		
4	300*300	48.4		
5	300*300	47.6		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300*300	No visible effect	Class AA, min (13630 Part 8)
2	300*300	No visible effect	
3	300*300	No visible effect	
4	300*300	No visible effect	
5	300*300	No visible effect	

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III. STAIN RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300*300	Stain Removed by Water	**Class 1, min (13630 Part 8)**
2	300*300	Stain Removed by Water	
3	300*300	Stain Removed by Water	
4	300*300	Stain Removed by Water	
5	300*300	Stain Removed by Water	

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